Abstract

An apparatus and method for imaging metallic nanoparticles. The invention teaches an apparatus and method for detection of gold colloid particles and for accurate reporting to the operator. The apparatus includes a substrate holder for holding the substrate, a processor and memory device, an imaging module, an illumination module, a an input module, and an output module. The apparatus may have a stationary substrate holder and imaging module which are proximate to one another. The apparatus provided for a compact system without the need for complex motorized devices to move a camera across the substrate. Further, the apparatus and method provide for automatic detection of the spots/wells on the substrate, automatic quantification of the spots on the substrate, and automatic interpretation of the spots based on decision statistics.